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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Applicant: Gutsche) Art Unit: 2166
Serial No.: 10/756,123) Examiner: Channavajjala
Filed: January 12, 2004) HSJ920030256U\$1
For: GUI FOR DATA PIPELINE) June 5, 2007) 750 B STREET, Suite 3120
) San Diego, CA 92101

APPEAL BRIEF

Commissioner of Patents and Trademarks

Dear Sir;

This brief is submitted under 35 U.S.C. §134 and is in accordance with 37 C.F.R. Parts 1, 5, 10, 11, and 41, effective September 13, 2004 and published at 69 Fed. Reg. 155 (August 2004). This brief is further to Appellant's Notice of Appeal filed herewith.

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(1) Real Party in Interest

The real party in interest is Hitachi Global Storage Technologies, Netherlands, B.V.

(2) Related Appeals/Interferences

No other appeals or interferences exist which relate to the present application or appeal.

(3) Status of Claims

Claims 1-9 are pending and finally rejected, which rejections are appealed, and claims 10-25 have been canceled.

(4) Status of Amendments

No amendments are outstanding.

(5) Summary of Claimed Subject Matter

As an initial matter, it is noted that according to the Patent Office, the concise explanations under this section are for Board convenience, and do not supersede what the claims actually state, 69 Fed. Reg. 155 (August 2004), see page 49976. Accordingly, nothing in this Section should be construed as an estoppel that limits the actual claim language.

The sole independent claim at issue (Claim 1) recites a graphical user interface (GUI) (reference numeral 310, figure 11; page 16, line 21) for configuring data pipelines (reference numeral 10, figure 1; page 6, line 7). Claim 1 requires that the GUI be displayable on a user computer monitor and stored on a computer 1189-25.APP

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memory (page 7, lines 10 and 11). The GUI includes a pipe input set window (e.g., as shown in figures 18

and 19 and discussed on pages 22 and 23) configured to permit a user to define a type of pipe input set data,

and a GUI page based on the type. The GUI page is generated by translating the type using a configuration

file to a class and using Java reflection to generate an instance of the class (last line of page 22 through first

three lines of page 23), and the instance produces the GUI page (last line of page 22 through first three lines

of page 23). The GUI page is then used to configure a data pipeline (page 16, lines 9 and 10).

(6) Grounds of Rejection to be Reviewed on Appeal

(a) Claim 1 has been rejected under 35 U.S.C. §101 as being non-statutory.

(b) Claims 1-9 have been rejected under 35 U.S.C. §103 as being unpatentable over

Blaszczak et al., USPP 2004/0186915 (hereinafter "ref a") in view of Yamamoto et al., USPN

6,311,151 (hereinafter "ref b").

(7). Argument

As an initial matter, it is noted that according to the Patent Office, a new ground of rejection in an

examiner's answer should be "rare", and should be levied only in response to such things as newly presented

arguments by Appellant or to address a claim that the examiner previously failed to address, 69 Fed. Reg. 155

(August 2004), see, e.g., pages 49963 and 49980. Furthermore, a new ground of rejection must be approved

by the Technology Center Director or designee and in any case must come accompanied with the initials of

the conferees of the appeal conference, id., page 49979.

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a. Section 101 Rejection

Claim 1 has been rejected under 35 U.S.C. §101 as being non-statutory. Specifically, the examiner

alleges that Claim 1, despite producing a GUI that is displayable on a computer monitor and used to configure

a data pipeline, which the first paragraph of the background makes clear is useful for, e.g., continuously

processing data in large scale manufacturing processes, grocery store sales, and the like, nonetheless lacks a

"practical application." But the rejection is merely conclusory. It utterly fails to explain why a GUI, much

less one that is explicitly disclosed to be displayed on a computer monitor for configuring a useful, tangible,

and concrete data pipeline, lacks a practical application when it so obviously is highly practical.

Underpinning all of the rejections at bottom appear to be (although the grammar of the rejections

makes it difficult to be certain) bare unsupported allegations that graphical user interfaces are mere software

and hence non-statutory since they do not represent useful, tangible, and concrete results. This is a somewhat

interesting position for the Patent Office to take. A GUI is not mere music, literary work, or simple collection

of data as contemplated by MPEP §2106.01. Anyone who operates a computer these days uses a GUI to do

so. It is a tool without which almost no PC would be operable.

Moreover, the Patent Office has issued over 700 patents with "GUI" or "graphical user interface" in

the title. Plainly, producing a tool such as a hammer must be considered to produce a useful, tangible, and

concrete result, and hammers are less ubiquitously used than GUIs. Not surprisingly, the allegation that

producing a GUI is non-statutory is absolutely without a shred of legal authority: it is simply an unfounded

and completely unexplained position taken by an examiner.

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Nevertheless, in the interest in promoting prosecution Claim 1 was amended to positively recite in its

body what had been suggested previously in the preamble, namely, that the GUI page is used to configure a

data pipeline. Configuring a useful data pipeline, a few example useful applications of which are discussed

in the first paragraph of the present background, cannot legitimately be said not to be a useful and tangible

result.

This has been responded to by an odd non-sequitur, namely, an irrelevant comment (incorrect to boot,

as it turns out) that a computer medium was not taught in the specification. This of course is a Section 112

argument, not a Section 101 argument, which in any case utterly fails to rebut any of the points made above.

The response of the examiner to the above points concludes with a resolute refusal to face Appellant's points,

merely restating the incorrect allegation that no "real-world" output that is useful is produced, Office Action,

page 12, lines 7-10, despite the fact that a data pipeline is produced and its "real-world" uses divulged in the

specification as pointed out above.

b(1) Obviousness Rejections - All Claims

Claims 1-9 have been rejected under 35 U.S.C. §103 as being unpatentable over ref (a), alleging that

paragraphs 66 line 12 through paragraph 67 line 11 teach a pipe input set window configured to permit a user

to define a type of pipe input set data and that paragraph 78 teaches producing a GUI by translating the type

using a configuration file to a class, in view of ref (b), alleging that col. 5, lines 56-60 teach Java reflection.

Turning first to ref (a), the relied-upon portions state nothing at all about defining an input set data

type as claimed. Instead, in pertinent part the relied-upon portion of paragraph 66 teaches simply that a node

in the graph represents a specific predefined data transformation functionality that is offered by uninstantiated

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component objects 370 residing in a component library 316 - not that a type of a data set, as opposed to a

transformation, is defined, and less still that the GUI page is generated by translating the type using a

configuration file to a class as claimed.

This has been responded by a representation that "examiner interpreting (sic) pipeline[s] corresponds

(sic) to Blaszczak's data transformation pipline (sic) or DTP as detailed in fig 6A, element 302, and graphical

user interface or GUI corresponds to Blaszczak's GUI fig 6A, element 304", Office Action, page 13, lines 3-6.

As best understood by Appellant, this is nothing more than a statement that the examiner thinks Blaszczak

et al. has a data pipeline and a GUI. Appellant's specific technical analysis of the shortcomings of the

reference remain unrebutted.

Appellant notes that the examiner has not provided a claim construction for "data type" to aid

Appellant in understanding the basis of the rejection (e.g., is it the examiner's position that "data type"

encompasses compiler commands?), but in any case Appellant notes that claim terms must be construed as

one skilled in the art would construe them, MPEP §2111.01, and no evidence has been pointed to in the

references that skilled artisans regard compiler commands or file names to be "data types".

The relied-upon portion of paragraph 67 is of no further avail, because it too fails to state anything

about defining a type for an input data set. Instead, it merely teaches that after graph data is input via the

GUI, a translator translates the graph into an DFE plan. The translator also works in conjunction with an

optimizer subsystem to optimize the graph into a maximally efficient execution structure by eliminating

redundancies, simplifying and enhancing the DFE plan and possibly performing other optimizations - but not

by defining a type of an input data set. For this reason, the rejections merit reversal.

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Not surprisingly, the examiner disagrees with this too, Office Action, page 13, line 10. However, as

was the case above, the examiner fails to take issue with the specific technical analysis made by Appellant

regarding paragraph 67, instead making additional generalizations to the effect that the reference teaches

modules and APIs, and that it uses a particular type of tool - not, however, that it teaches anything at all about

defining a type for an input data set as claimed.

In addition, Appellant would like to point out that paragraph 78 of ref (a) does not, contrary to the

allegation in the rejection, produce a GUI by translating the type using a configuration file to a class. Nothing

in paragraph 78 implicates a type of an input data set, much less to use the type to produce a GUI, much less

still in the particular way claimed. Instead, paragraph 78 further discusses the importance of the

translator/optimizer portions discussed above (which are parts of a "scheduler"), and that the scheduler further

controls actual execution of data flows. For this further reason, the rejections merit reversal.

As usual, the examiner disagrees without specifically supporting a contrary position beyond a broad-

brush allegation, in this case, that the reference generally teaches "consistent functionality". If this in some

mysterious way actually addresses the very specific and technical issue being discussed (translating the type

using a configuration file to a class), Appellant has been unable to divine it.

Still further, the suggestion to modify ref (a) with the alleged "Java reflection" of ref (b) to arrive at

Claim 1 is misplaced. Specifically, the relied-upon portion of ref (b) simply states that each Java bean

component has its own features, including its properties, methods, and events, and that the features can be

examined by other beans by a process known as introspection, which is supported in two ways. First, ref (b)

teaches that specific rules, known as design patterns, are followed when naming bean features. Ref (b)

explains that a particular class examines beans for these design patterns to discover bean features, and that this

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class relies on the "core reflection API." But this API is never further mentioned, either in terms of what it

is or what it does.

Accordingly, to the extent that the "core reflection API" is the same thing as "Java reflection", which

Appellant does not concede, it is used at most to examine the features of Java beans. In contrast, Claim 1

requires using Java reflection for something entirely different and, hence, unsuggested by ref (b), namely,

generating an instance of a class of a type of pipe input set data. Thus, ref (b) does not suggest anything

remotely close to a modification of ref (a) that would reach Claim 1, further rendering the rejection overcome.

The Board will not be surprised to learn that the examiner disagrees. It will also not come as a

surprise that the disagreement is expressed in generalized terms without addressing the specific technical issue

at hand. More particularly, on page 14 of the Office Action, part (d), it is repeated that Blaszczak et al.

teaches a data pipeline that transforms data, and that its pipeline can use Java. On page 15 it is alleged that

Yamamoto et al. teaches using Java reflection to generate "an instance of a class", relying on col. 5, lines 55-

60, but this simply wrong. The relied-upon portion of ref (b) teaches only that a "core reflection API" is used

to "examine Beans for design patterns to discover Bean features". The Office Action then descends into what

a "reflection API" typically does and what it allegedly represents without any prior art support for the

contentions and, more importantly, without ever getting round to showing why examining "Beans" for features

as is done in ref (b) is the same thing as using Java reflection to generate an instance of the class which

produces a GUI page as claimed.

b(2) Obviousness Rejections - Dependent Claim 2

With respect to Claim 2, Appellant would like to point out that the allegation appears to be incorrect.

that ref (a), paragraph 82 teaches a pipe input set window and GUI page that require no programming apart

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from an initial core code. All this part of ref (a) teaches is the details of how the translator/optimizer translate

the graph into a DFE.

This has been responded to with a nearly incomprehensible statement, the import of which appears

to be that paragraph 82 teaches building from a library and thus for some reason meets the limitations at issue,

which of course nowhere mention "library" but which do recite some very detailed technical features that

remain studiously ignored.

b(3) Obviousness Rejections - Dependent Claim 3

With respect to Claim 3, Appellant would like to point out that the allegation appears to be incorrect

that ref (a), paragraph 82 teaches that the GUI is an incremental GUI wherein GUI pages for new pipe

components can be added incrementally without changing existing code. All this part of ref (a) teaches is the

details of how the translator/optimizer translate the graph into a DFE.

This observation and those following for Claims 4 and 6 have been castigated for being "merely

conclusory" for failing to address "examiner's particular interpretation of the reference". That's the problem -

no claim interpretation has ever been provided by the examiner nor has he explained why simply declaring

that the apple of the reference is the seemingly unrelated orange of the claim has merit. Appellant is not

playing word games "interpreting" what the reference teaches in a way that conveniently suits its case, but

instead is focusing on what the reference actually teaches, which is something very different than what the

claim recites.

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b(4) Obviousness Rejections - Dependent Claim 4

With respect to Claim 4, Appellant would like to point out that the allegation appears to be incorrect

that ref (a), paragraph 9 teaches that a new pipe module is based on a pre-existing module type. All this

portion of ref (a) teaches is that GUI graph can be used to develop a DFE, with each node in the graph

defining a transformation function.

b(5) Obviousness Rejections - Dependent Claim 6

With respect to Claim 6, Appellant would like to point out that the allegation appears to be incorrect

that ref (a), paragraphs 69-73 teach that the GUI defines a set of interfaces, with each interface including plural

functions. The relied-upon paragraphs do not describe interfaces much less ones that includes plural functions,

but rather simply set out the five operations used to control the DFE of ref (a),

This observation has not been rebutted.

With further respect to Claim 6, Appellant would like to point out that the allegation appears to be

incorrect that ref (a), paragraphs 53 and 81 teach that the GUI includes a GUI representation part and a storage

part, with the GUI representation part defining how something is displayed and the storage part defining how

GUI parameters are stored in an external storage. Instead, paragraph 53 discusses exposing a user interface

to an SQL server, not that a GUI includes two parts, much less the ones claimed, much less still what the parts

define. Paragraph 81 likewise adds nothing of import, describing only how the GUI is used to define how

to extract data from a database.

This has been responded to in relevant part by referring to Blaszczak et al., elements 304 and 380 and

paragraphs 53 and 81. But the element 304 is simply a GUI, while the element 380 is a buffer, paragraph 76.

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whereas Claim 6 requires more than a mere GUI with a storage. As required by the claim, the GUI itself has

a GUI representation part and a storage part, with the GUI representation part defining how something is

displayed and the storage part defining how GUI parameters are stored in an external storage. The relied-upon

portions of the reference do not appear to contemplate that part of the GUI defines how GUI parameters are

stored in the relied-upon buffer.

b(6) Obviousness Rejections - Dependent Claim 7

With respect to Claim 7, Appellant would like to point out that the allegation appears to be incorrect

that ref (a), paragraph 80 teaches a tab for defining a set representative of a type of output data from the

pipeline. Paragraph 80 merely states that data remains in a buffer during DTP operations. No tab is

mentioned, much less in the context of a GUI, much less still for the purpose recited in Claim 7. The

examiner insists otherwise without support and without specifically attempting to address where the precise

limitation of defining a set representative of a type of output data is to be found in the reference.

b(7) Obviousness Rejections - Dependent Claim 8

With respect to Claim 8, Appellant would like to point out that the allegation appears to be incorrect

that ref (a), paragraph 78 teaches a tab for defining an arbitrary number of elements contained in a component

of the pipeline, with individual input and output sets being definable for each element in the component.

Instead, paragraph 78 further discusses the importance of the translator/optimizer portions discussed above

(which are parts of a "scheduler"), and that the scheduler further controls actual execution of data flows.

There is no teaching in paragraph 78 of a tab, arbitrary number of elements in a component, or individual

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input and output sets that are defined for each element in the component. The propriety of the examiner

insisting otherwise without further support will be left to the Board to decide.

b(8) Obviousness Rejections - Dependent Claim 9

With respect to Claim 9, Appellant would like to point out that the allegation appears to be incorrect that ref (a), paragraph 7 teaches a tab for defining an arbitrary number of modules of the pipeline, with a type being selected for each module using the tab and with the type defining part of the GUI. Instead, paragraph 7 contains no teachings of tabs, much less tabs that are part of a GUI, or of selecting modules, much less doing so using GUI tabs. Paragraph 7 simply discusses scheduling data flow execution using a graph. The

propriety of the examiner insisting otherwise will be left to the Board to decide.

Respectfully submitted,

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APPENDIX A - APPEALED CLAIMS

A graphical user interface (GUI) for configuring pipelines, the GUI displayable on a user
 computer monitor and stored on a computer memory and comprising;

at least one pipe input set window configured to permit a user to define a type of pipe input set data;

at least one GUI page based on the type, the GUI page being generated by translating the type using a configuration file to a class and using Java reflection to generate an instance of the class, the instance producing the GUI page; and

using the GUI page to configure a data pipeline.

- 2. The GUI of Claim 1, wherein at least the pipe input set window and GUI page require no programming apart from an initial core code.
- 3. The GUI of Claim 1, wherein the GUI is an incremental GUI wherein GUI pages for new pipe components can be added incrementally without changing existing code.
- 4. The GUI of Claim 3, wherein at least one new pipe module is based on a pre-existing module type.
- 5. The GUI of Claim 3, wherein at least one new pipe module is based on a new user-defined component type.

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6. The GUI of Claim 1, wherein the GUI defines a set of interfaces, each interface including plural functions, the GUI including a GUI representation part and a storage part, the GUI representation part defining how something is displayed and the storage part defining how GUI parameters are stored in an external storage.

7. The GUI of Claim 1, further comprising:

at least one *Pipe Output Set* tab for defining *PipeOutputSet* representative of a type of output data from the pipeline.

The GUI of Claim 1, further comprising:

at least one Storage For TupleSets tab for defining an arbitrary number of elements contained in a StorageForTupleSets component of the pipeline, individual input and output sets being definable for each element in the component.

9. The GUI of Claim 1, further comprising:

at least one Pipe Modules tab for defining an arbitrary number of PipeModules of the pipeline, a type being selected for each PipeModule using the tab, the type defining at least in part the GUI.

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APPENDIX B - EVIDENCE

None (this sheet made necessary by 69 Fed. Reg. 155 (August 2004), page 49978.)

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APPENDIX C - RELATED PROCEEDINGS

None (this sheet made necessary by 69 Fed. Reg. 155 (August 2004), page 49978.)